

FREE FLOAT. DRAIN TRAP

MODEL JAH5RA

DRAIN TRAP WITH TIGHT SHUT-OFF FOR AIR AND INERT GASES

Benefits

High pressure, inline repairable free float trap with tight shut-off. Automatically drains condensate from air and inert gas systems.

- 1. Constant water seal and unique rotational seating design eliminate concentrated wear to ensure long life.
- 2. Three-point seating provides a tight seal even under low-load conditions
- 3. Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.
- 4. Built-in screen with large surface area ensures extended trouble-free service.
- 5. Rugged float construction with up to 2300 psig hydraulic shock rating ensures excellent performance of the trap.



Specifications

Model	JAH5RA-R (Rubber Orifice)						
Connection	Screwed Socket Weld Flanged						
Size (in)	³ / ₄ , 1 ³ / ₄ , 1 ³ / ₄ , 1						
Orifice No.	10, 22						
Max. Operating Pressure (psig) PMO**	150, 315						
Max. Differential Pressure (psi) ΔPMX**	150, 315						
Min. Operating Pressure (psig)		Vacuum					
Max. Operating Temperature (°F) TMO	212						
Max. Allowable Pressure (psig) PMA	650						
Max. Allowable Temperature (°F) TMA		800					
Applicable Fluids*		Air, Inert Gas					

^{*} Do not use for toxic, flammable, or otherwise hazardous gases.

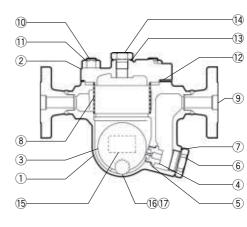
Connections and sizes in bold are standard

						Sp	ecific Grav	ity				
Model	Orifice No.	1.00	0.99 - 0.95	0.94 - 0.90	0.89 - 0.85	0.84 - 0.80	0.79 - 0.75	0.74 - 0.70	0.69 - 0.65	0.64 - 0.60	0.59 - 0.55	0.54 - 0.50
		Maximum Operating Pressure PMO (psig) & Maximum Differential Pressure ΔPMX (psi)										
JAH5RA-R	10 22	150 315	150 315	150 315	150 315	150 315	130 299	108 248	85 196	62 144	40 92	17 40

CAUTION

To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted. DO NOT use with toxic, flammable or otherwise hazardous fluids.

No.	Description	Material	ASTM/AISI*	JIS
1	Body	Cast Steel	A216 Gr. WCB	_
2	Cover	Carbon Steel	A105	_
3	Float	Stainless Steel	AISI316L	SUS316L
4	Orifice	Nitrile Rubber/Stainless Steel	D2000BF/AISI316L	NBR/SUS316L
(5)	Orifice Gasket	Soft Iron	AISI1010	SUYP
6	Orifice Plug	Cast Stainless Steel	A743 Gr.CA40	_
7	Orifice Plug Gasket	Soft Iron	AISI1010	SUYP
8	Screen	Stainless Steel	AISI430	SUS430
9	Socket**/Flange	Carbon Steel	A105	_
11)	Cover Bolt	Alloy Steel	A193 Gr.B16	SNB16
10	Cover Nut	Carbon Steel	AISI1045	S45C
12	Cover Gasket	Graphite/Stainless Steel	-/AISI304	-/SUS304
13	Plug Gasket	Soft Iron	AISI1010	SUYP
14)	Balancing Line Plug	Carbon Steel	AISI1025	S25C
15	Nameplate	Stainless Steel	AISI304	SUS304
16	Drain Plug Gasket***	Soft Iron	AISI1010	SUYP
17	Drain Plug***	Carbon Steel	AISI1025	S25C



Copyright © TLV

^{**} For specific gravities other than 1.00, use table below

^{*} Equivalent ** Shown on reverse *** Option



Options

- 1. Body material: stainless steel
- 2. Balancing port connection: flanged, socket weld, or screwed with other thread standards

Consulting · Engineering · Services

Leakage Rating

Maximum Seat Leakage

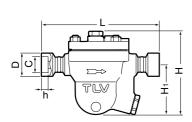
Model Orit	Orifico	Minimum ΔP (psi)						
		0.1	1.5					
JAH5RA	Rubber	<0.01% of rated valve capacity	<0.15 standard ml/min, <1 bubble/min					

^{*} Standard milliliters based on 60 °F, 14,73 psi abs

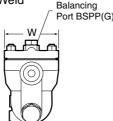
67/8

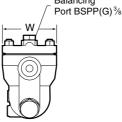
Dimensions

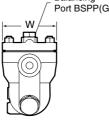
JAH5RA Screwed & Socket Weld

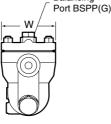


JAH5RA Flanged













(in)

101/8 * NPT, other standards available

JAH5RA Screwed*

9 11/16

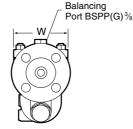
JAH5RA Socket Weld*								
Size	L	Н	H ₁	φW	ΦD	φС	h	Weight (lb)
³ / ₄ 1	911/16	6 1/8	4 1/8	4 1/2	1 ⁹ / ₁₆ 1 ⁷ / ₈	1.065 1.330	9/16	15

 H_1

4 1/8

* ASME B16.11-2005, other standards available

J	
L	-
	<u> </u>
	∤ ┊┐
	뒫
	<u> </u>

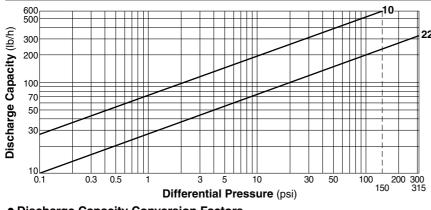


JAH5RA Flanged									
Size	L Connects to ASME Class 300RF	Н	H₁	φW	Weight (lb)				
3/4	10 %	6 1/8	4 1/8	4 1/2	19				
1	12 ³ ⁄ ₁₆	0 /8	4 /8	4 /2	22				

Other standards available, but length and weight may vary

Note: A pressure-balancing line must be connected to the air/inert gas system from the balancing port at the top of the trap to a place above any possible condensate accumulation in the system.

Discharge Capacity



- 1. Line numbers within the graph are orifice numbers.
- 2. Differential pressure is the difference between the inlet and outlet pressure of the trap.
- 3. The chart is applicable to condensate below 212°F.
- 4. The discharge capacity is for liquids with a specific gravity of 1. See the Discharge Capacity Conversion Factors table for other specific gravities.
- 5. Recommended safety factor: at least

Discharge Capacity Conversion Factors

											_
Specific Gravity (S.G.)	0.95	0.9	0.85	0.8	0.75	0.7	0.65	0.6	0.55	0.5	
Conversion Factor	1.03	1.06	1.08	1.12	1.16	1.19	1.24	1.29	1.35	1.41	

Before using the discharge capacity chart, multiply the required capacity (including safety factor) by the appropriate conversion factor for the specific gravity of the liquid to be discharged. Choose from the table above or use the following formula: Conversion Factor = √S.G.



ÖUÁPUVÁ • ^ Ás@āÁ; | a* &oÁ } a^; Ás[} a ãcā] } • Ás@ac exceed maximum differential pressure, as condensate backup will occur!



DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE.

Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

TLV CORPORATION

13901 South Lakes Drive, Charlotte, NC 28273-6790 Tel: 704-597-9070 Fax: 704-583-1610

E-mail: tlv@tlvengineering.com https://www.tlv.com For Technical Service 1-800 "TLV TRAP"





approved by LRQA Ltd. to ISO 9001/14001

